

GILA RIVER BASIN

09484550 CIENEGA CREEK NEAR SONOITA, AZ

LOCATION--Lat 31°51'56", long 110°34'12", in SW_{1/4}NW_{1/4}SW_{1/4} sec. 13, T.18 S., R.17 E., Pima County, Hydrologic Unit 15050302, north of Sonoita.

DRAINAGE AREA--Undetermined.

PERIOD OF RECORD--Oct. 2001 to current year.

GAGE--Water-stage recorder and concrete weir. Elevation of gage is 4,180 ft above sea level, from topographic map.

REMARKS--Records fair except for estimated daily discharges, which are poor. No known diversion above station.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 429 ft³/s, Aug. 2, 2005, gage height, 9.19 ft. Minimum daily discharge, 0.12 ft³/s in some years.

EXTREMES FOR CURRENT YEAR--Peak discharge above 300 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Aug. 2	1945	*429	*9.19

Minimum daily discharge, 0.12 ft³/s, July 6, 12, 13, and Aug. 10.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.34	0.54	0.63	0.69	0.75	0.80	0.80	0.56	0.29	0.15	e1.3	2.6
2	0.34	0.56	0.64	0.74	0.75	0.80	0.81	0.55	0.29	0.15	e18	0.52
3	0.33	0.55	0.65	0.83	0.75	0.81	0.82	0.54	0.28	0.14	e1.6	0.50
4	0.33	0.57	0.73	0.85	0.77	0.81	0.80	0.52	0.29	0.14	e0.53	0.49
5	0.34	0.54	0.68	0.75	0.78	0.83	0.80	0.50	0.30	0.13	e11	0.49
6	0.35	0.55	0.67	0.73	0.77	0.94	0.80	0.49	0.29	0.12	e0.65	0.47
7	0.35	0.55	0.64	0.72	0.77	0.86	0.78	0.49	0.28	0.13	e15	2.8
8	0.35	0.55	0.62	0.72	0.78	0.83	0.76	0.48	0.27	0.15	e1.2	0.61
9	0.36	0.53	0.62	0.73	0.77	0.81	0.76	0.46	0.26	0.14	e0.82	4.7
10	0.35	0.54	0.62	0.73	0.78	0.81	0.76	0.45	0.27	0.14	e0.12	0.67
11	0.39	0.57	0.63	0.72	0.85	0.78	0.76	0.45	0.27	0.14	e0.44	0.50
12	0.40	0.58	0.63	0.72	0.93	0.78	0.75	0.43	0.27	0.12	e0.75	0.47
13	0.40	0.59	0.62	0.71	0.81	0.77	0.72	0.42	0.26	0.12	e17	0.44
14	0.41	0.57	0.63	0.73	0.80	0.77	0.70	0.40	0.25	0.14	e46	0.42
15	0.40	0.58	0.63	0.72	0.80	0.77	0.68	0.39	0.24	0.14	e34	0.41
16	0.42	0.60	0.64	0.73	0.79	0.78	0.63	0.36	0.23	0.14	e2.6	0.40
17	0.53	0.62	0.64	0.73	0.80	0.79	0.62	0.36	0.23	0.16	4.5	0.36
18	0.56	0.63	0.64	0.73	0.80	0.78	0.62	0.36	0.22	0.17	0.65	0.36
19	0.57	0.63	0.66	0.74	0.83	0.79	0.61	0.34	0.23	0.15	0.57	0.38
20	e0.53	0.62	0.66	0.75	0.92	0.78	0.61	0.31	0.23	0.16	0.52	0.38
21	0.48	0.62	0.66	0.83	0.82	0.77	0.61	0.29	0.21	0.16	0.50	0.38
22	0.55	0.64	0.66	0.79	0.81	0.77	0.60	0.27	0.21	0.17	3.6	0.32
23	0.53	0.66	0.66	0.77	0.80	0.76	0.61	0.29	0.22	0.22	24	0.30
24	0.53	0.65	0.65	0.76	0.80	0.77	0.68	0.29	0.23	12	29	0.27
25	0.53	0.63	0.66	0.77	0.81	0.78	0.67	0.30	0.22	0.47	21	0.25
26	0.54	0.64	0.67	0.78	0.81	0.79	0.61	0.31	0.19	0.34	2.7	0.33
27	0.54	0.64	0.68	0.80	0.81	0.80	0.58	0.33	0.18	0.72	0.62	0.32
28	0.54	0.65	0.67	0.78	0.80	0.82	0.57	0.39	0.18	e0.29	0.52	0.33
29	0.54	0.63	0.70	0.79	---	0.82	0.61	0.37	0.16	e0.35	0.48	0.25
30	0.54	0.63	0.69	0.79	---	0.81	0.59	0.33	0.15	e0.39	0.45	0.32
31	0.55	---	0.69	0.76	---	0.81	---	0.30	---	e0.84	0.44	---
TOTAL	13.92	17.86	20.27	23.39	22.46	24.79	20.72	12.33	7.20	18.78	240.56	21.04
MEAN	0.45	0.60	0.65	0.75	0.80	0.80	0.69	0.40	0.24	0.61	7.76	0.70
MAX	0.57	0.66	0.73	0.85	0.93	0.94	0.82	0.56	0.30	12	46	4.7
MIN	0.33	0.53	0.62	0.69	0.75	0.76	0.57	0.27	0.15	0.12	0.12	0.25
MED	0.42	0.59	0.65	0.74	0.80	0.79	0.68	0.39	0.23	0.15	1.2	0.41
AC-FT	28	35	40	46	45	49	41	24	14	37	477	42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)

MEAN	0.61	0.71	0.84	0.96	1.09	1.12	0.92	0.51	0.26	0.88	3.21	0.56
MAX	0.89	0.95	1.10	1.33	1.51	1.51	1.26	0.69	0.33	1.41	7.76	0.97
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2003	2005	2001
MIN	0.36	0.56	0.65	0.75	0.80	0.80	0.69	0.40	0.22	0.60	1.17	0.31
(WY)	2003	2003	2005	2005	2005	2005	2005	2005	2003	2002	2001	2004

SUMMARY STATISTICS FOR 2004 CALENDAR YEAR FOR 2005 WATER YEAR WATER YEARS 2001 - 2005

ANNUAL TOTAL	300.50	443.32		
ANNUAL MEAN	0.82	1.21	0.99	
HIGHEST ANNUAL MEAN			1.21	2005
LOWEST ANNUAL MEAN			0.87	2004
HIGHEST DAILY MEAN	22	Aug 19	46	Aug 14
LOWEST DAILY MEAN	0.16	Aug 8	0.12	Jul 6
ANNUAL SEVEN-DAY MINIMUM	0.18	Aug 2	0.13	Jul 6
ANNUAL RUNOFF (AC-FT)	596		879	717
10 PERCENT EXCEEDS	1.2		0.82	1.3
50 PERCENT EXCEEDS	0.60		0.62	0.69
90 PERCENT EXCEEDS	0.24		0.23	0.26

e Estimated